

ROAD SYSTEM

BRIDGES

BRIDGE PRESERVATION PROGRAM

PROJECT SCOPE/DESCRIPTION: Bridges identified for bridge painting; bridge scour; bridge deck preservation; and underwater bridge repairs are addressed through this program. The bridge management program identifies deficient bridges and funding for preliminary engineering, right-of-way, and construction in the Bridge Projects section. They are then listed as separate projects in the Capital Transportation Program.

The sign inspection program will inventory and inspect all state-owned sign structures, high mast lighting, and traffic signal supports. During the initial inventory inspection of the structures, an inspection interval will be assigned based on the structure's condition. Funding to address deficiencies identified through the inspection plan is provided within Materials and Minor Contracts.

PROJECT JUSTIFICATION: The bridge inspection program creates the priority rating system, which is based on deficiency ratings and will be used for further rehabilitation and repair as they are identified.

County:	Statewide
Municipality:	
Funding Program:	Road System - Bridges
Functional Category:	Preservation
Representative District:	Statewide
Senatorial District:	Statewide

Example of a Timber Bridge



Bridge Over Silver Lake in Rehoboth



BRIDGE PRESERVATION PROGRAM (CONTINUED)**PROJECT FUNDING INFORMATION**

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 12/31/03	Expended as of 12/31/03	Committed Unexpended as of 12/31/03	Authorization Available
Bridge Preservation Program		\$ 49,119.0						
Prior Years	State			\$ 7,050.2	\$ 2,746.5	\$ 0.0	\$ 2,746.5	\$ 4,303.7
	Federal			\$ 9,540.8	\$ 0.0	\$ 0.0	\$ 0.0	\$ 9,540.8
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004	State		\$ 49,119.0	\$ 1,380.8	\$ 0.0	\$ 0.0	\$ 0.0	\$ 5,684.5
	Federal			\$ 2,323.2	\$ 0.0	\$ 0.0	\$ 0.0	\$ 11,864.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2005 Request	State			\$ 1,800.8				\$ 7,485.3
	Federal			\$ 4,003.2				\$ 15,867.2
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 1,380.8				\$ 8,866.1
	Federal			\$ 2,323.2				\$ 18,190.4
	Other			\$ 0.0				\$ 0.0
FY 2007 Projected	State			\$ 1,800.8				\$ 10,666.9
	Federal			\$ 4,003.2				\$ 22,193.6
	Other			\$ 0.0				\$ 0.0
FY 2008-2010 Projected	State			\$ 4,862.4				\$ 15,529.3
	Federal			\$ 8,649.6				\$ 30,843.2
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 18,275.8	\$ 2,746.5			\$ 15,529.3
	Federal			\$ 30,843.2	\$ 0.0			\$ 30,843.2
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 49,119.0	\$ 49,119.0	\$ 49,119.0	\$ 2,746.5	\$ 0.0	\$ 2,746.5	\$ 46,372.5

BRIDGE PRESERVATION PROGRAM (CONTINUED)**PROJECT TIMELINE INFORMATION**

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008 -2010
	Bridge Preservation Program									
	Bridge Painting	PE, C	100% ST	\$ 416.2	\$ 416.2	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
		PE, C	80% FHWA	20,000.0	6,000.0	2,000.0	2,000.0	2,000.0	2,000.0	6,000.0
	Sign Structure Program	PE, C	80% FHWA	5,436.0	1,208.0	604.0	604.0	604.0	604.0	1,812.0
	Bridge Scour	PE, C	100% ST	2,519.0	2,519.0	0.0	0.0	0.0	0.0	0.0
		PE, C	80% FHWA	2,700.0	600.0	300.0	300.0	300.0	300.0	900.0
	Bridge Inspection & Management	PE, C	80% FHWA	10,418.0	4,118.0	0.0	2,100.0	0.0	2,100.0	2,100.0
	Bridge Deck Preservation	PE, C	100% ST	6,369.8	1,469.8	700.0	700.0	700.0	700.0	2,100.0
	Underwater Bridge Repair	PE, C	100% ST	1,260.0	260.0	100.0	100.0	100.0	100.0	600.0
	Total All Funds			\$ 49,119.0	\$ 16,591.0	\$ 3,704.0	\$ 5,804.0	\$ 3,704.0	\$ 5,804.0	\$ 13,512.0

BRIDGE PROJECTS

PROJECT SCOPE/DESCRIPTION: Funding is requested for bridges that are identified for replacement or rehabilitation including structurally deficient bridges. As individual bridges are identified through the Bridge Management Program, they are funded from this group and then listed as separate pages in the appropriate county.

In addition to the above-described program, specific bridges over the CSX rail line in the City of Wilmington will be repaired. These include work on Bridge 1-609B, which carries 6th Street over CSX, consists of replacing the existing steel through girder superstructure with a single span prestressed concrete girder. Additional work to be included will be reconstruction of roadway approaches. The proposed work on Bridge 1-609C, which carries 7th Street over CSX, consists of removing the existing steel through girder superstructure and piers. The roadway at either end of the bridge will be closed and modified with some landscaping or architectural enhancements. The proposed work on Bridge 1-609D, which carries 9th Street over CSX, consists of replacing the existing steel through girder superstructure with a single span steel girder. Additional work to be included will be reconstruction of roadway approaches. The proposed work on Bridge 1-651, which carries Newport Road over CSX, consists of replacing the entire structure with a single span steel girder. The new structure will be wider to accommodate pedestrian as well as vehicular traffic. Additional work to be included will be reconstruction of the roadway approaches.

PROJECT JUSTIFICATION: The bridge priority rating system is based on deficiency and functional obsolescence ratings. These are updated biannually to determine specific bridges for rehabilitation, reconstruction or replacement.

The existing steel superstructure for Bridge 1-609B is in serious condition and is currently closed due to its deficiencies. The bridge currently ranks 6th out of 1,399 on the department's bridge deficiency list (via the bridge management program). The existing steel superstructure for Bridge 1-609C is in critical condition and the bridge is currently closed due to these deficiencies. The bridge currently ranks 2nd out of 1,399 on the department's bridge deficiency list (via the bridge management program). The existing steel superstructure for Bridge 1-609D is in critical condition and is currently posted for 3 tons due to these deficiencies. The bridge currently ranks 1st out of 1,399 on the department's bridge deficiency list (via the bridge management program). The existing Bridge 1-651 is functionally obsolete and is posted for 15 tons. The bridge currently ranks 7th out of 1,399 on the department's bridge deficiency list (via the bridge management program).

County:	Statewide
Municipality:	
Funding Program:	Road System - Bridges
Functional Category:	Preservation
Representative District:	Statewide
Senatorial District:	Statewide

BRIDGE PROJECTS (CONTINUED)**PROJECT FUNDING INFORMATION**

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 12/31/03	Expended as of 12/31/03	Committed Unexpended as of 12/31/03	Authorization Available
Bridge Projects		\$ 86,746.7						
Prior Years	State			\$ 4,060.8	\$ 2,957.2	\$ 15.2	\$ 2,942.0	\$ 1,103.6
	Federal			\$ 4,968.8	\$ 0.0	\$ 0.0	\$ 0.0	\$ 4,968.8
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004	State		\$ 86,746.7	\$ 2,689.9	\$ 0.0	\$ 0.0	\$ 0.0	\$ 3,793.5
	Federal			\$ 400.6	\$ 0.0	\$ 0.0	\$ 0.0	\$ 5,369.4
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2005 Request	State			\$ 4,581.0				\$ 8,374.5
	Federal			\$ 2,323.9				\$ 7,693.3
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 2,184.4				\$ 10,558.9
	Federal			\$ 8,737.6				\$ 16,430.9
	Other			\$ 0.0				\$ 0.0
FY 2007 Projected	State			\$ 3,786.7				\$ 14,345.6
	Federal			\$ 15,146.6				\$ 31,577.5
	Other			\$ 0.0				\$ 0.0
FY 2008-2010 Projected	State			\$ 7,573.3				\$ 21,918.9
	Federal			\$ 30,293.1				\$ 61,870.6
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 24,876.1	\$ 2,957.2			\$ 21,918.9
	Federal			\$ 61,870.6	\$ 0.0			\$ 61,870.6
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 86,746.7	\$ 86,746.7	\$ 86,746.7	\$ 2,957.2	\$ 15.2	\$ 2,942.0	\$ 83,789.5

BRIDGE PROJECTS (CONTINUED)**PROJECT TIMELINE INFORMATION**

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008 -2010
	Bridge Projects									
	Structurally Deficient Bridges	PE, RW, C	80% FHWA	\$ 61,015.4	\$ 4,711.0	\$ 324.8	\$ 257.8	\$ 7,922.0	\$ 15,933.3	\$ 31,866.4
		PE, RW, C	100% ST	2,908.3	2,818.6	89.7	0.0	0.0	0.0	0.0
		PE, RW, C	80% FHWA	8,407.0	0.0	0.0	2,407.0	1,500.0	1,500.0	3,000.0
	Design and Right of Way for Identified Annual Program	PE, RW, C	100% ST	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PE, RW, C	80% FHWA	7,916.0	1,500.0	176.0	240.0	1,500.0	1,500.0	3,000.0
24-074-04	CSX Bridges in Wilmington	PE, RW, C	100% ST	6,500.0	0.0	2,500.0	4,000.0	0.0	0.0	0.0
24-074-02										
24-074-03										
	Total All Funds			\$ 86,746.7	\$ 9,029.6	\$ 3,090.5	\$ 6,904.8	\$ 10,922.0	\$ 18,933.3	\$ 37,866.4